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NOTICE OF ALLOWANCE AND FEE(S) DUE

59796

c/o CPA Global

P.O. BOX 52050

MINNEAPOLIS, MN 55402

07/02/2010

INTEL CORPORATION

EXAMINER

QUADER, FAZLUL

ART UNIT

PAPER NUMBER

2164

DATE MAILED: 07/02/2010

١	APPLICATION NO.	N NO. FILING DATE FIRST NAMED INVENTO		R ATTORNEY DOCKET NO. CONFIRMAT		
١	10/583,650	06/20/2006	Denis Sergeevich Milov	P22634	3743	

TITLE OF INVENTION: ITERATIVE SEARCH WITH DATA ACCUMULATION IN A COGNITIVE CONTROL FRAMEWORK

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	10/04/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current **SMALL ENTITY status:**

A. If the status is the same, pay the TOTAL FEE(S) DUE shown

B. If the status above is to be removed, check box 5b on Part B -Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where n

indicated unless correct maintenance fee notifica	ed below or directed oth	nerwise in Block 1, by (a	a) specifying a new corre	espondence address	; and/or	(b) indicating a sepa	rate "FEE ADI	DRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.				
INTEL CORPO c/o CPA Global P.O. BOX 52050	0	Sta	ereby certify that th tes Postal Service v	Certificate of Mailing or Transmission by certify that this Fee(s) Transmittal is being deposited with the United Postal Service with sufficient postage for first class mail in an envelope sed to the Mail Stop ISSUE FEE address above, or being facsimile itted to the USPTO (571) 273-2885, on the date indicated below.				
MINNEAPOLIS	S, MN 55402			(Дер			positor's name)	
								(Signature)
								(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	₹	ATTOR	NEY DOCKET NO.	CONFIRMAT	ION NO.
10/583,650 TITLE OF INVENTION	06/20/2006 :: ITERATIVE SEARCH	WITH DATA ACCUM	Denis Sergeevich Milov ULATION IN A COGNI		RAMEW	P22634 /ORK	3743	
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE	DATE	DUE
nonprovisional	NO	\$1510	\$300	\$0		\$1810	10/04/	/2010
EXAM	IINER	ART UNIT	CLASS-SUBCLASS	ss				
QUADER	, FAZLUL	2164	707-005000	-				
"Fee Address" ind PTO/SB/47; Rev 03-C Number is required. 3. ASSIGNEE NAME A PLEASE NOTE: Unl	ND RESIDENCE DATA less an assignee is identi h in 37 CFR 3.11. Comp	'Indication form ed. Use of a Customer A TO BE PRINTED ON ' ified below, no assignee	(I) the names of up to a gents OR, alternat (2) the name of a sing registered attorney or 2 registered patent att listed, no name will be THE PATENT (print or ty data will appear on the T a substitute for filing at (B) RESIDENCE: (CIT	ively, the firm (having as a agent) and the namorneys or agents. If a printed. Type) to patent. If an assign assignment.	a member nes of up no name	r a 2to is 3	ocument has be	een filed for
Please check the appropr	iate assignee category or	categories (will not be pr	rinted on the patent):	Individual 🖵 C	orporatio	n or other private gro	oup entity 🔲 (Government
	are submitted: No small entity discount p # of Copies	permitted)	4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) ☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).					
NOTE: The Issue Fee an	s SMALL ENTITY statu	us. See 37 CFR 1.27.	b. Applicant is no load from anyone other than	-				ther party in
interest as shown by the	records of the United Sta	tes Patent and Trademark	Office.					
Authorized Signature				Date				
Typed or printed name				Registration N	No			
This collection of inform an application. Confiden submitting the complete this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	tiality is governed by 35 d application form to the ions for reducing this but 7 riginia 22313-1450. DC	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary den, should be sent to th ONOT SEND FEES OR	on is required to obtain or 1.14. This collection is ex depending upon the indi e Chief Information Offic COMPLETED FORMS T	retain a benefit by stimated to take 12 vidual case. Any co er, U.S. Patent and O THIS ADDRES:	the public minutes t omments Tradema S. SEND	which is to file (and to complete, includir on the amount of ti- ark Office, U.S. Dep TO: Commissioner	by the USPTO ng gathering, pre me you require artment of Com for Patents, P.O	to process) eparing, and to complete imerce, P.O. D. Box 1450,

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/583,650	06/20/2006	Denis Sergeevich Milov	P22634	3743		
59796 7	59796 7590 07/02/2010		EXAMINER			
INTEL CORPORATION			QUADER, FAZLUL			
c/o CPA Global P.O. BOX 52050 MINNEAPOLIS, MN 55402			ART UNIT PAPER NUMBER 2164			
						WIININEAPOLIS,

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 917 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 917 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)		
	10/583,650 MILOV, DENIS SEI		RGEEVICH	
Notice of Allowability	Examiner	Art Unit		
	FAZLUL QUADER	2164		
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not include will be mailed in due	ed course. THIS	
1. This communication is responsive to 04/16/2010.				
2. ☑ The allowed claim(s) is/are <u>1-25</u> .				
3. ☐ Acknowledgment is made of a claim for foreign priority ur a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)).	been received. been received in Application No		tion from the	
* Certified copies not received:				
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the re-	quirements	
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			OTICE OF	
5. CORRECTED DRAWINGS (as "replacement sheets") mus	et be submitted.			
(a) I including changes required by the Notice of Draftspers	on's Patent Drawing Review (PTO-	948) attached		
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date				
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the O	ffice action of		
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			back) of	
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 			Note the	
Attachment(s)				
1. X Notice of References Cited (PTO-892)	5. Notice of Informal Pa	atent Application		
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary Paper No./Mail Dat			
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	Paper No./Mail Date 7.			
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛛 Examiner's Stateme	nt of Reasons for Allo	owance	
	9.			

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DETAILED ACTION

1. Claims 1-25 are pending in this application.

Allowable Subject matter

2. Claims 1-25 are allowed.

The examiner deems claims 1-25, as novel when viewed as a whole for the limitations of iterative search with data accumulation in cognitive control framework.

The closest prior art of record, Steinberg discloses searching hypotheses for locations of objects in a playback image corresponding to a recorded image generated by a graphical user interface (GUI) of an application program comprising: capturing the playback image (Steinberg: [0149], acquisition of playback image); detecting at least one active object in the recorded image (Steinberg: detection of image); searching subsets of hypotheses from the playback image for an object according to predetermined criteria (Steinburg: [0165], using predetermined criteria; [0193], using predefined criteria); recalculating old actions for the object in the playback image by applying actions according to an execution scenario and loading a next set of data, when the object is found (Steinberg: iteratively calculating image parameters); and

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although, Steinberg discloses calculating relative size and location of image objects (Steinberg: [0165]), Steinberg, however, does not explicitly disclose checking of dynamic conditions. Kuth, however, discloses checking of dynamic conditions or parameters (Kuth: [0027], parameters for the dynamic variation of the image data).

However, the prior art of record fails to anticipate or render obvious the recited feature of the limitations cited above added with capturing the a selected playback image, the playback image being one of a series of display images generated over time by a graphical user interface (GUI) of an application program being tested by a cognitive control framework (CCF) system in a playback phase in response to simulated user inputs to the application program; detecting at least one active display object in a recorded image, the recorded image being one of a series of display images generated over time by the GUI of the application program being tested and captured during a recording phase of the CCF system based on user inputs to the application program, the user inputs, time interval between user inputs, and resulting display data forming an execution scenario script for use in testing the GUI of the application program during the playback phase for generating playback images, the at least one active display object being a portion of the recorded image being acted upon as a result of user input; searching subsets of hypotheses of locations of display objects in the captured playback image for a matching display object corresponding to the detected at least one active display object of the recorded image according to predetermined criteria; recalculating old actions for the matching display object in the playback image by applying actions

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according to the execution scenario script and loading a next set of data, when the corresponding matching display object is found; and checking dynamic conditions, including the time between user inputs.

These features, together with the other limitations of the independent claims are novel and non-obvious over the prior art of record. The dependent claims being definite, enabled by the specification, and further limiting to the independent claims, are also allowable.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to FAZLUL QUADER whose telephone number is (571)270-1905. The examiner can normally be reached on M-F 8-5 Alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Rones can be reached on 571-272-4085. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

FAZLUL QUADER Examiner Art Unit 2164

/FQ/

/Charles Rones/

Supervisory Patent Examiner, Art Unit 2164